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APPLICATION NO.	FILING DAT	FIRST NAMED INVEN	TOR ATTOR	NEY DOCKET NO.	CONFIRMATION NO.	
10/772,479	02/05/2004	Fredrick R. Drisco	11	6818-64	4983	
30448	7590 09/2	09/29/2005 EXAMINER			IINER	
AKERMA	N SENTERFITT		VASUDEVA, AJAY			
P.O. BOX		·	ART UNIT	PAPER NUMBER		
WEST PALM BEACH, FL 33402-3188				3617		
			DATE M	ИAILED: 09/29/200	05	

Please find below and/or attached an Office communication concerning this application or proceeding.

	1					
,	Application No.	Applicant(s)				
	10/772,479	DRISCOLL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ajay Vasudeva	3617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 31 Au	<u>ıgust 2005</u> .					
2a) This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 (4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) 12-25 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 29 June 2005 is/are: a) Applicant may not request that any objection to the conference of the second of the conference of the second of the second	☐ accepted or b)☐ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Page 2

Election/Restrictions

1. Applicant's election without traverse of invention of Group I (claims 1-11) in the reply

filed on 8/25/2005 is acknowledged. Claims 12-25 are therefore withdrawn from further

consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected Groups of Inventions,

there being no allowable generic or linking claim.

Specification

2. On page 1 (line 8), after "Office of", change "Navel" to - Naval --.

3. The specification is objected to as failing to provide proper antecedent basis for the

claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the

following is required:

• The mooring line including at least one conductor, as set forth in claim 6.

Note: No new matter should be entered.

Drawings

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every

feature of the invention specified in the claims. Therefore, the following must be shown or the

feature(s) canceled from the claim(s).

A cylinder containing an anchor, mooring module and a buoy, as set forth in claim 2.

• The mooring line including at least one conductor, as set forth in claim 6.

Note: No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should

include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claims 1-11 are objected to because of the following informalities:

A use of slash-type of punctuation mark (/) in the expression "air brake/anchor" is objected to because it is an informal expression and may be confused for indicating an alternative (e.g., air-brake <u>or</u> anchor) rather than a combination (air-brake <u>and</u> anchor). It is recommended that "air brake/anchor" be changed to "air brake and anchor" or an equivalent. Appropriate correction is requested.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Application/Control Number: 10/772,479 Page 4

Art Unit: 3617

In claim 2, applicants claim the anchor, the mooring module and the buoy as being deployed from the cylinder (emphasis added). While the Specification does generally refer to a container with an anchor, a mooring module and a buoy, applicants have provided no description of a mechanism that would effect their deployment from the cylinder. As such, the disclosure of the invention would not enable one skilled in the art to make and/or use the invention.

8. Claim 6 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 6, applicants claim <u>at least one conductor</u> included in the mooring line. However, the original Specification discloses no such arrangement.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-5 and 7-11 are rejected under 35 U.S.C. 102(a) as being anticipated by the IEEE's 2002 publication by Driscoll, Venezia, Curic and Pantelakis, cited in applicant's IDS.

It is first noted that the authors of the IEEE's 2002 publication cited in applicant's IDS are not the same as the inventors of the instant invention, and therefore, the two are considered to be different inventive entities.

The IEEE publication (see pages 435-436; and figures 2-6) discloses an autonomous mooring device comprising a combination of an air brake and anchor. The combination has a parachute attached to a plurality of mooring arms, a mooring line contained within a mooring module, and a floatation buoy attached to an end of the mooring line (page 435, col. 1, ¶3).

Each of the mooring arms comprises a plurality of linked arm segments, the mooring arms being foldable at joints of the linked arm segments to enable the air brake/anchor to be folded into a compact, stowed position. Springs are connected to adjacently positioned linked arm segments to facilitate deploying the air brake/anchor from the compact, stowed position to an expanded, deployed position (page 435, col. 2). The mooring line module comprises a mooring line spool, a module housing, a line feed disk, and a line locking mechanism, wherein the mooing line is fed out from the mooring line spool through the line feed disk. The mooring line module further comprises an electronics system with a magnet and a hall sensor; and a pressure sensor to measure the depth of the mooring line module within a fluid.

11. Claims 1, 5 and 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by the Halberg et al. (US 3,291,092 A).

Halberg et al. shows an autonomous mooring device comprising a combination of a brake and anchor. The combination has a parachute [97] (see fig. 8) attached to a plurality of

Art Unit: 3617

mooring arms [24], a mooring module [17], and a floatation buoy [14] attached to an end of the mooring line [18]. Applicant may note that no patentable weight is given to the adjective "air" in the phrase "air brake". It may additionally be noted that if the device of Halberg et al. is dropped from the sky, the mooring arms would operate as air brakes, also commonly known as rotochutes.

Re claim 7, the parachute is attached to at least an <u>inner</u> end of the mooring arms.

Re claims 8 and 9, the mooring line module comprises a mooring line spool [43], a module housing [26], and a line feed disk [28, 31], wherein the mooing line is fed out from the mooring line spool through the line feed disk. The attachment means of the line [18] to the module, considered inherent in the design of the device to prevent a detachment, is considered to be equivalent of a line locking mechanism.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajay Vasudeva whose telephone number is (571) 272-6689. The examiner can normally be reached on Monday-Friday 12:00 -- 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joe Morano can be reached on (571) 272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ajay Vasudeva Examiner Art Unit 3617

PATENT EXAMINER

Vannder 9/28/05